Estimated cost Rs. 100.00 Lakhs

005-17-000046

Job code-308-1-000060

SBR No. 6 | 18 19

DATED 18/1/19

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For other works)

(Date: .....)

P-3122 Date: Amrut Project

Bill No. 3rd & Part

Sub-Division AEE (Lakes)

Division : DCF (Lakes)

Bill Received No: ..... Dated : ..... Cash Book .....

Voucher No: ..... Dated: .....

Schedule Docket No: .....

Head of Account :

Name of the Work: Development of Green space and parks to Vin Field Layout Main Road Park Ward - 5 Jakkur (Yelahanka Zone) Electrical Bill

Name of the Contractor & Address: Sri. Mahesh K. N.

Reference to Agreement No: DCF(Lakes)/WO-70/2017-18 Dated 20/3/2018

Certified that the measurements were taken by me on 18/1/2019 and recorded on pages 311018 to 311025. of measurement Book No 311/16-17 and the work is satisfactorily executed.

Contractor

K.N. Badiger

Officer- in charge of work

Certified that the measurement were checked by me on 18/1/2019 and found correct

The work is satisfactorily executed.

Certified that the Quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Asst. Sub-Division Officer

Yelahanka Sub-Division

Bruhat Bengalore Mahanagara Palike

Memorandum of payment

1	Total value of work done or supplies made as per the account within		13826280=00
2	Deduct amount to be held in reserve being ..... percent Rs.	TWD —	1173248=00
3	" Balance		2093800=00
4	Deduct payments	Upto 2nd & Part PP —	20940=00
	a) Amount of previous payment as in the office cash book voucher No. ..... Dated ..... S D No..... Amount adjusted towards cash advance recovery of	3rd & Part Cost	20940=00
	b) Payments cost store or other materials supplied Now made recovery of amount creditable of this/other work. Amount paid on this bill Cheque/ Cash.	NT Cost Royalty CBE Cess	20940=00
5	Balance being unpaid value of work done held in reserve.	CBE 10%	20940=00
6	Deduct cash advance made on the office Cash Book Voucher No. Dated ..... less adjustments.	Cheque Advance	2095=00
7	Net amount due to or from Contractor. Unadjusted items	cheque	85855=00
8	Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied.		2007945=00

Check measured by Deputy Conservator of Forests (Lakes) on In MB No. In page No.

Contractor

Received Rs. .....

(in words) .....

By Cash & by adjustment of Payment as per memorandum

Witness :

1

2

Dated

Stamp

Contractor

Audited and admitted for Rs. 2093800/-

Passed for Rs. 2007945/= Rupees Twenty Lakh Seven Thousand Nine Hundred Forty Five Only By Cheque

For Rs. 85855/= By Adjustment

Deputy Conservator of Forests (Lakes) BBMP

A.S.IAO

Bruhat Bengalore Mahanagara Palike

Paid by me by Cheque No. ..... Dated:.....

Cash Rs. ..... Dated:.....

Initials of Officer making Payment

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Item code	Item Name	Unit	Approved Qty	Approved Rate	Previous measurements		Present measurements			Up to date measurements	
					Qty	Amount	Qty	Rate	Amount	Qty	Amount
	Elecrical works										
122	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended.4 meters - Top 75mm and bottom 115 mm dia,As directed by the engineer incharge of the work.	Nos	60.00	7594.18			60.00	7594.18	455650.92	60.00	455650.92
123	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended5)7 meters - Top 75mm and bottom 145 mm dia,As directed by the engineer incharge of the work.	Nos	5.00	14734.98			5.00	14734.98	73674.90	5.00	73674.90
124	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm,As directed by the engineer incharge of the work.	Mtrs	1450.00	147.35			923.10	147.35	136018.60	923.10	136018.60
125	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A5)3.5 core 25 sqmm,As directed by the engineer incharge of the work.	Mtrs	100.00	173.69			50.00	173.69	8684.61	50.00	8684.61
126	Labour charges for lying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct.b)25sqmm to 75 sqmm,As directed by the engineer incharge of the work.	Mtrs	1450.00	11.02			923.10	11.02	10172.33	923.10	10172.33
127	Labour charges for lying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct.b)25sqmm to 75 sqmm,As directed by the engineer incharge of the work.	Mtrs	100.00	17.00			45.00	17.00	765.09	45.00	765.09
128	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete,As directed by the engineer incharge of the work.	Mtrs	1000.00	81.86			678.30	81.86	55526.32	678.30	55526.32
129	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps25kA.,As directed by the engineer incharge of the work.	Nos	1.00	4244.18			1.00	4244.18	4244.18	1.00	4244.18
130	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps,As directed by the engineer incharge of the work.	Each	6.00	245.58			6.00	245.58	1473.50	6.00	1473.50
131	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.f)40-63Amps TPN,As directed by the engineer incharge of the work.	Each	3.00	2031.83			3.00	2031.83	6095.50	3.00	6095.50
132	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG,As directed by the engineer incharge of the work.	Sqcm	70000.00	0.35			70000.00	0.35	24243.45	70000.00	24243.45
133	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps,As directed by the engineer incharge of the work.	Nos	3.00	10405.79			3.00	10405.79	31217.38	3.00	31217.38
134	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm1.5 sqmm,As directed by the engineer incharge of the work.	Mtrs	600.00	16.69			510.00	16.69	8510.40	510.00	8510.40

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CONTRACTOR

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Item code	Item Name	Unit	Approved Qty	Approved Rate	Previous measurements Qty	Previous measurements Amount	Present measurements Qty	Present measurements Rate	Present measurements Amount	Up to date measurements Qty	Up to date measurements Amount
135	Wiring for lighting/power circuit using one of PVC insulated 1100v grade. multis and Copper conductor single core cable in open or concealed system of wiring.I Group A Materialsg)16 sqmm.As directed by the engineer incharge of the work.	Mtr.	10.00	138.53			30.00	138.53	4156.02	30.00	4156.02
136	Supplying and fixing phylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws	Sqcm	20000.00	0.23			20000.00	0.23	4617.80	20000.00	4617.80
137	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm.As directed by the engineer incharge of the work.	Mtrs	30.00	276.02			30.00	276.02	8280.56	30.00	8280.56
138	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A.As directed by the engineer incharge of the work.	Nos	2.00	4407.90			2.00	4407.90	8815.80	2.00	8815.80
139	Supply of LED Post Top Lantern with system ... wattage, housing & frame shall be of powder coated, die cast aluminum, diffuser with high density polyethylene IP65 EPDM Gasket. Life 50000 Hrs. @ L70 shall be conforming to IS 10322/Part 5/ Section 5 @ 230V. 5 years Warranty against any manufacturing defect working under standard electrical condition 2)LED Post Top Lantern with 24 watts,As directed by the engineer incharge of the work.	Nos	60.00	16718.54			60.00	16718.54	1003112.10	60.00	1003112.10
140	Supply of LED Square Recessed Down lighter with 18W System Wattage. Housing shall be with powder coated pressure die cast aluminum alloy with corrosion resistant polyester powder coat & with extended heat sink. Diffuser/cover made of Lexan plastic material. Rated life shall be L70 @ 50000 Hrs. which shall has inbuilt electrical protection like over/under voltage, short circuit, overload, open circuit & miswiring. Driver is on constant current driver output driver @ 0.06A with PF > 0.9 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens. 5 years Warranty against any manufacturing defect working under standard electrical condition.As directed by the engineer incharge of the work.	No	3.00	5189.78			3.00	5189.78	15569.33	3.00	15569.33
141	Fixing charges of post top/ Gate/ Garden fitting /LED on the existing CI / GI or any other pipe using required size of reducer. wiring using suitable wires.As directed by the engineer incharge of the work.	Each	70.00	152.18			60.00	152.18	9130.65	60.00	9130.65
142	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 122mm dia.As directed by the engineer incharge of the work.	Each	1.00	2861.99			1.00	2861.99	2861.99	1.00	2861.99
143	Supplying and running of GI/Copper strips for grounding connections, using necdessary fixing materials as required. GI strip 1). 25x3mm,As directed by the engineer incharge of the work.	Mtr	10.00	80.81			10.00	80.81	808.12	10.00	808.12
144	Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned	No	10.00	15370.98			10.00	15370.98	153709.77	10.00	153709.77
145	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25 mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. 2) 50 mmAs directed by the engineer incharge of the work.	Mtrs	6.00	410.35			6.00	410.35	2462.13	6.00	2462.13
146	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. 3) 25 SqmmAs directed by the engineer incharge of the work.As directed by the engineer incharge of the work.	Nos	2.00	379.92			2.00	379.92	759.84	2.00	759.84
147	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C.50 Hz 12/24v D.C.As directed by the engineer incharge of the work.	Nos	3.00	463.88			3.00	463.88	1391.64	3.00	1391.64
148	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes 6) 16 sqmm.As directed by the engineer incharge of the work.	Nos	400.00	11.87				11.87			

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Item code	Item Name	Unit	Approved Qty
149	open conduit system Supplying heavy gauge PVC conduit pipe.... dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 2) 25mm dia 2mm thick ,As directed by the engineer incharge of the work.	Mtr	750.00
150	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1:4;8base concrete,1:2;4pedestal concrete and etc As directed by the engineer incharge of the work.	Nos	60.00
151	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1:4;8base concrete,1:2;4pedestal concrete and etc coplete as per the data sheet enclosed As directed by the engineer incharge of the work.	Nos	5.00
152	Supplying of Hikvision 8 Chanl DVR DS7508N1NVR,As directed by the engineer incharge of the work.	Nos	1.00
153	Supplying of 1.3 MegaPixel Hikvision CCTV CamaraDS2CD20F-1As directed by the engineer incharge of the work.	Nos	4.00
154	Supplying Hikvision PTZ Camara DS 2DE7174-A With Pole Mount and Power Supplay,As directed by the engineer incharge of the work.	Nos	1.00
155	Supplying of 2TB Hard disk seagate,As directed by the engineer incharge of the work.	Nos	2.00
156	Supplying of 4x4 Pole Switch TP link,As directed by the engineer incharge of the work.	Nos	1.00
157	Supplying of 4 Pin Spike pin Cona/Reputed,As directed by the engineer incharge of the work.	Nos	5.00
158	Supplaying of Out door SupportableCAD5/ CAD6 Cable	Mtrs	800.00
159	Laying of Out door Supportable CAD5/ CAD6 Cable.As directed by the engineer incharge of the work.	Mtrs	800.00
160	Supplying of 32" LED TV Make Samsung/ LG	Nos	1.00
161	Instllation Charges For Camera ,DVR ,Spike Pin, IP Configration & etc Complet Soas to work Coplet CCTV System.As directed by the engineer incharge of the work.	Set	1.00

Add Bescom charges Rs

3mms charges Rt no 3060922973140dt 1/12/18 Rs 22760=00

Meter charges Rt no 18499 Date 14/1/2019 Rs 17302=00

Total 24490=00

Certificate:

Certify that the Work has been carried out Satisfactorily

T.N. Ravi

Asst. Executive Engineer (Elec.)
Yelahanka Sub-Division
Bruhat Bangalore Mahanagara Palike

Approved Rate	Previous measurements		Present measurements			Up to date measurements	
	Qty	Amount	Qty	Rate	Amount	Qty	Amount
73.47				73.47			
1133.46			60.00	1133.46	68007.60	60.00	68007.60
4406.85				4406.85			
17714.51				17714.51			
14063.30				14063.30			
68217.50				68217.50			
11072.23				11072.23			
7529.11				7529.11			
1201.68				1201.68			
73.47				73.47			
11.02				11.02			
36732.50				36732.50			
27811.75				27811.75			
				20	2099960.53		2099960.53

Remove 24490-00

21244501/-

21244501/-

2093800/=

2093800/=

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